



6BC4

6BC4

## MEDIUM-MU TRIODE

9-PIN MINIATURE TYPE

For use as rf amplifier in cathode-drive circuits  
of TV tuners covering range of 470-890 Mc

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:

Voltage . . . . . 6.3 . . . . . ac or dc volts  
Current . . . . . 0.225 . . . . . amp

Direct Interelectrode Capacitances (Approx.):\*

Grid to plate . . . . . 1.6  $\mu$ f  
Grid to heater and cathode . . . . . 2.9  $\mu$ f  
Plate to heater and cathode . . . . . 0.26  $\mu$ f  
Heater to cathode . . . . . 2.7  $\mu$ f

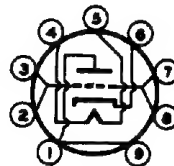
#### Characteristics - Class A<sub>1</sub> Amplifier:

Plate Supply Voltage . . . . . 150 volts  
Cathode-Bias Resistor . . . . . 100 ohms  
Amplification Factor . . . . . 48  
Plate Resistance . . . . . 4800 ohms  
Transconductance . . . . . 10000  $\mu$ hos  
Grid Voltage (Approx.) for plate  
current of 10  $\mu$ amp . . . . . -10 volts  
Plate Current . . . . . 14.5 ma

#### Mechanical:

Mounting Position . . . . . Any  
Maximum Overall Length . . . . . 1-3/4"  
Maximum Seated Length . . . . . 1-1/2"  
Length, Base Seat to Bulb Top  
(Excluding Tip) . . . . . 1-1/8"  $\pm$  3/32"  
Maximum Diameter . . . . . 7/8"  
Bulb . . . . . T-6-1/2  
Base . . . . . Small-Button Noval 9-Pin (JETEC No.E9-1)  
Basing Designation for BOTTOM VIEW . . . . . 9DR

Pin 1 - Plate  
Pin 2 - Grid  
Pin 3 - Grid  
Pin 4 - Heater  
Pin 5 - Heater



Pin 6 - Cathode  
Pin 7 - Grid  
Pin 8 - Grid  
Pin 9 - Plate

### AMPLIFIER - Class A<sub>1</sub>

#### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE . . . . . 250 max. volts  
PLATE DISSIPATION . . . . . 2.5 max. watts  
CATHODE CURRENT . . . . . 25 max. ma  
PEAK HEATER-CATHODE VOLTAGE:  
Heater negative with respect to cathode . . . . . 75 max. volts  
Heater positive with respect to cathode . . . . . 75 max. volts

\* With no external shield.

JUNE 14, 1954

TUBE DIVISION  
RADIO CORPORATION OF AMERICA HARRISON, NEW JERSEY

TENTATIVE DATA

6BC4



6BC4

## MEDIUM-MU TRIODE

### Maximum Circuit Values (For maximum rated conditions):

#### Grid-Circuit Resistance:

For cathode-bias operation . . . . .	0.5 max. megohm
For fixed-bias operation . . . . .	not recommended

JUNE 14, 1954

TUBE DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

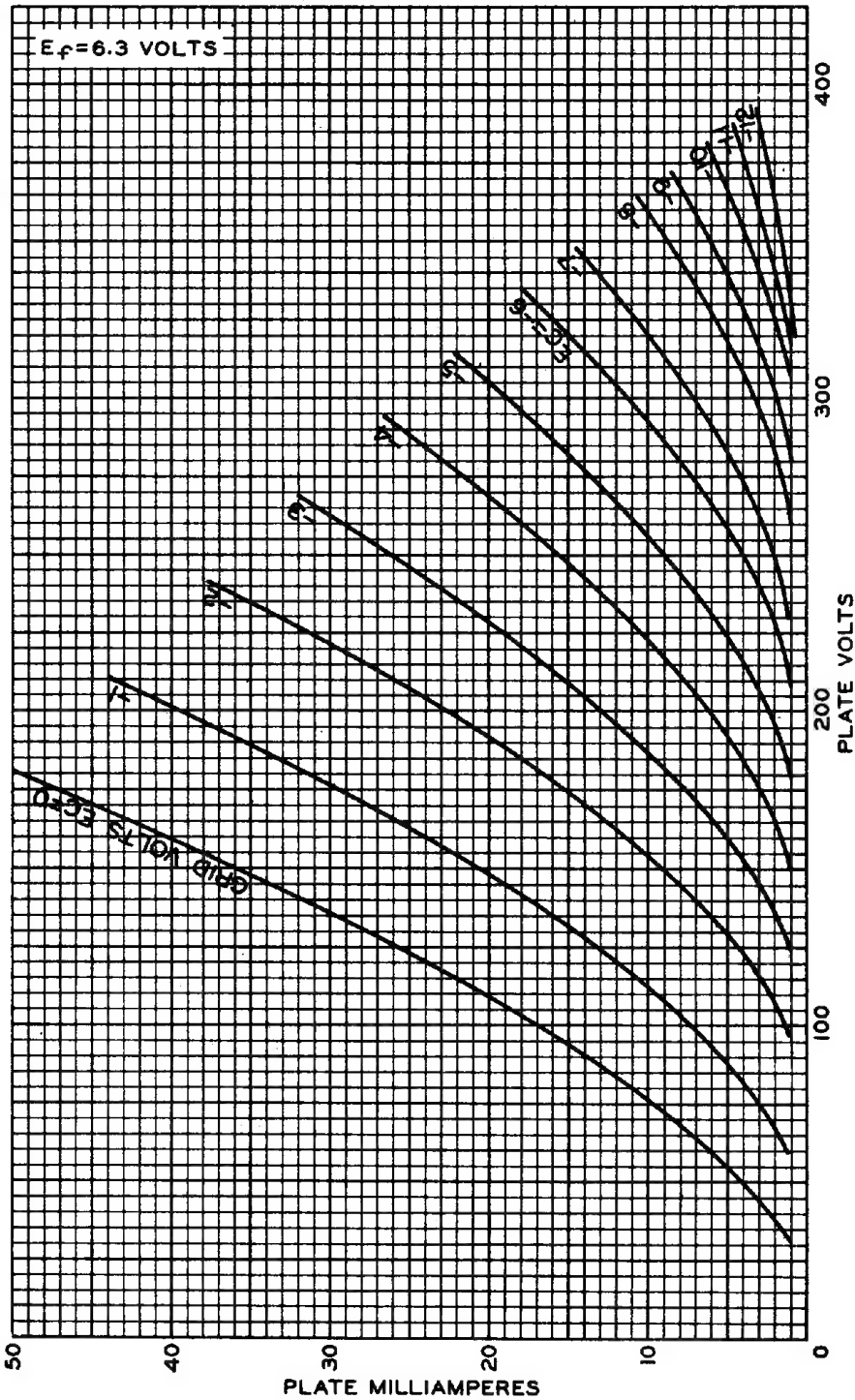
TENTATIVE DATA



6BC4

6BC4

# AVERAGE PLATE CHARACTERISTICS



FEB. 12, 1954

TUBE DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

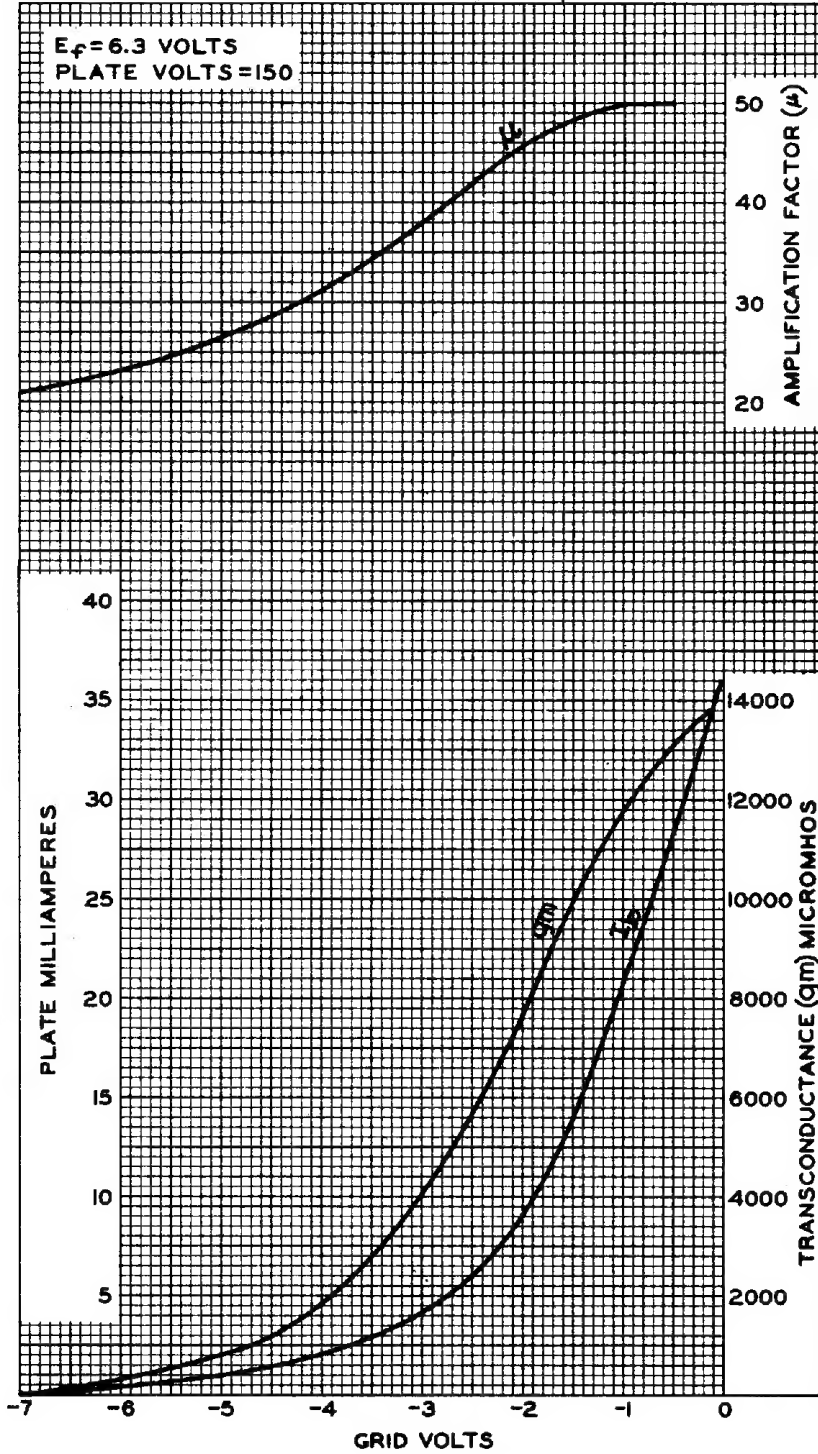
92CM-8241

6BC4



6BC4

### AVERAGE CHARACTERISTICS



FEB. 12, 1954

TUBE DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-8240